

Quarterly Examination 2017-2018

Std. : VI
Subject : Maths

Full Marks : 80
Time : 2hrs.+15min.

Q1. Mental Maths :

[10]

- (a) Write the ratio 16 to 40 in the simplest form.
- (b) The value of $(-1)^{215}$ is —.
- (c) $3^5 \times 3^2 = \text{—}$
- (d) Write 10,000 as a power of 10
- (e) The decimal fraction of $\frac{15}{75}$ is _____.
- (f) Write multiples of 13 greater than 67 and less than 130.
- (g) Write an equivalent fraction of $\frac{2}{3}$.
- (h) The value of $0.1 \times 0.01 \times 0.001$ is _____
- (i) Rs. 0.43 + Rs. 0.07 = _____
- (j) The side of a square whose area is 36m^2 is _____.

Q2. Solve the following :

[20]

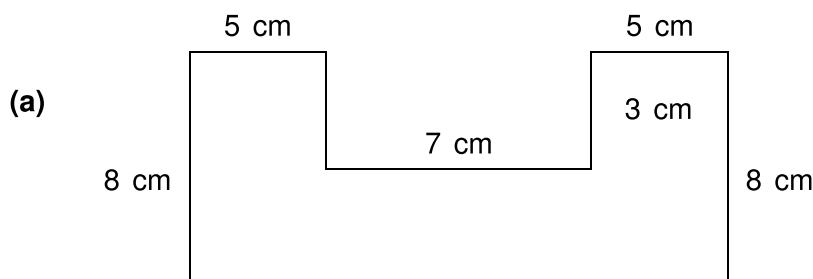
- (a) Find the perimeter of a rectangle whose length and breadth are : 4cm, 3.5cm.
- (b) Simplify : $\sqrt{64 \times 900}$
- (c) Four pizzas are to be equally shared among twelve children. What is the share of each child?
- (d) How many $\frac{1}{8}$'s are there in $37\frac{1}{2}$?
- (e) Which ratio is greater ?
3 : 4 or 5 : 6
- (f) Reduce 0.625 into lowest term.
- (g) Subtract 0.00004 from 0.63
- (h) Divide the L.C.M of 4 and 8 by the H.C.F. of 6 and 8.
- (i) Find the breadth of a rectangle whose perimeter is 160 cm and length is 25 cm.
- (j) What is the fourth term in the proportion 4.5, 8.1, 3 ?

Q3. Choose the correct option :**[10]**

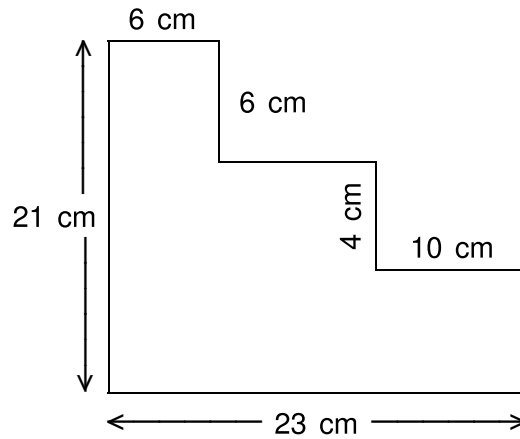
- (a) The ratio of 2 litres to 600 ml is _____ (1:30 / 10:3)
- (b) The difference between $1\frac{5}{11}$ and its reciprocal is $(\frac{135}{176} / \frac{141}{176})$
- (c) The value of $(1 + 0.1 + 0.01 + 0.001)$ is _____ (1.001 / 1.111)
- (d) The perimeter of a _____ = 3 x side (square / triangle)
- (e) The decimal fraction of $\frac{7}{1000}$ is _____ (0.07 / 0.007)
- (f) $(-596)^0$ is _____ (596 / 1)
- (g) The exponential form of 625 is _____ ($5^4 / 5^3$)
- (h) $4^8 \div 4^6 \times 4$ is _____ (4 / 0)
- (i) $16 : 24 = 20 : 30$ (True / False)
- (j) $0.0089 \times 1000 =$ _____ (89 / 8.9)

Q4. Simplify :**[15]**

- (a) Divide 315.84 by 4.7
- (b) $\sqrt{\frac{625}{11}} \times \frac{14}{\sqrt{25}} \times \frac{11}{\sqrt{196}}$
- (c) The two numbers are in the ratio 5:6. If the sum of the numbers is 132. Find the numbers.
- (d) $[\frac{1}{2} + \frac{1}{3}] \div 1\frac{5}{6} \times 11 - 3\frac{1}{2}$ of $2\frac{6}{7}$
- (e) $\frac{\frac{4}{5} - \frac{1}{4}}{1\frac{9}{20} + 1\frac{3}{10}}$

Q5. Construct an angle of 105° using a compass and a ruler. Name it —**[4]****Q6. Find the area and perimeter of the given shapes —****[6]**

(b)



Q7. Word Problems :

[12]

- (a) How many envelopes can be made out of a sheet of paper 125 cm by 85 cm if each envelope requires a piece of paper of size 17 cm by 5 cm ?
- (b) Amit's and his sister's ages are in the ratio 5:4. If Amit is 45 years old, how old is his sister?
- (c) There are 30 members of a committee. On a certain day, $\frac{11}{15}$ of the total strength was present. How many members were present ? How many were absent ?

Q8. Logical thinking.

[3]

- (a) A rope of length 60 cm is cut into two pieces. One piece is used to form a rectangle of length 12 cm and width 6 cm. The other piece is bent into a hexagon. What is the length of each side of the hexagon ?